

Electronic Information Disclosure Statement






Improved In Vitro Synthesis System

Application: 
10/091538
Confirmation: 8240
Applicant(s): Deb Chatterjee
Docket Number: 0942.5250001
Group Art Unit:
Examiner:
search string: (5324637 or 6168931 or 5665563).pn.

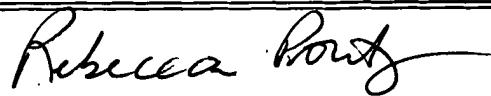
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US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Citation No.	Patent Number	Date	Bar Code	Patentee	Class	Subclass
RP	P01	5324637	1994-06-28		Thompson et al.		
RP	P02	6168931	2001-01-02		Swartz et al.		
RP	P03	5665563	1997-09-09		Beckler		

Signature

Examiner Name	Date
	12/1/81



FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
0942.5250001/RWE/B-CAPPLICATION NO.
10/091,538

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APPLICANT
Chatterjee et al.

JUL 31 2002

FILING DATE
March 7, 2002GROUP
1651

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
RP	AL1	WO 00/55353	09/21/2000	WIPO	—	—	Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RP	AR	1	Belasco, J.G., "mRNA Degradation in Prokaryotic Cells: An Overview," in: <i>Control of Messenger RNA Stability</i> , Belasco, J.G. and Brawerman, G., eds., Academic Press, Inc., San Diego, California, pp. 3-12 (1993)
RP	AS	1	Benzinger, R., et al., "Transfection of <i>Escherichia coli</i> Spheroplasts," <i>J. Virol.</i> 15:861-871, The American Society for Microbiology (1975)
RP	AT	1	Bonner, G., et al., "Mutations in T7 RNA polymerase that support the proposal for a common polymerase active site structure," <i>EMBO J.</i> 11:3767-3775, IRL Press (1992)

EXAMINER

Rebecca Prouty

DATE CONSIDERED

12/1/04

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INFORMATION DISCLOSURE STATEMENT		APPLICANT Chatterjee et al.		JUL 31 2002	
		FILING DATE March 7, 2002		GROUP 1651	
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	AP				Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)					
RP	AR	2	Craig, D., et al., "Plasmid cDNA-directed protein synthesis in a coupled eukaryotic in vitro transcription-translation system," <i>Nucleic Acids Research</i> 20:4987-4995, IRL Press, (1992)		
RP	AS	2	Datsenko, K.A. and Wanner, B.L., "One-step inactivation of chromosomal genes in <i>Escherichia coli</i> K-12 using PCR products," <i>PNAS</i> 97:6640-6645, National Academy of Sciences (June 2000)		
RP	AT	2	Ellman, J., et al., "Biosynthetic Method for Introducing Unnatural Amino Acids Site-Specificity into Proteins," <i>Meth. Enzymol.</i> 202:301-336, Academic Press, Inc. (1991)		
EXAMINER <i>Rebecca Pouty</i>				DATE CONSIDERED 12/1/04	
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RP	AR	3	Emory, S.A., et al., "A 5'-terminal stem-loop structure can stabilize mRNA in <i>Escherichia coli</i> ," <i>Genes & Dev.</i> 6:135-148, Cold Spring Harbor Laboratory Press (1992)
RP	AS	3	Eun, H.-M., "5. Phosphatases and Polynucleotide Kinase," in: <i>Enzymology Primer for Recombinant DNA Technology</i> , Eun, H.-M., ed., Academic Press, Inc., San Diego, California, pp. 307-344 (1996)
RP	AT	3	Friedman, S.A. and Hays, J.B., "Selective inhibition of <i>Escherichia coli</i> RecBC activities by plasmid-encoded GAMS function of phage lambda," <i>Gene</i> 43:255-263, Elsevier Science Publishers B.V. (1986)

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RP	AR	4	Gros, F., et al., "Unstable Ribonucleic Acid Revealed by Pulse Labelling of <i>Escherichia coli</i> ," <i>Nature</i> 190:581-585, Macmillan Journals, Ltd. (1961)
RP	AS	4	Iost, I., et al., "Bacteriophage T7 RNA Polymerase Travels Far Ahead of Ribosomes In Vivo," <i>J. Bacteriol.</i> 174:619-622, The American Society for Microbiology (1992)
RP	AT	4	Kawarasaki, Y., et al., "Phosphatase-immunodepleted cell-free protein synthesis system," <i>J. Biotech.</i> 61:199-208, Elsevier Science B.V. (1998)

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Rebecca Roney

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RP	AR	5	Kim, D.-M., et al., "A highly efficient cell-free protein synthesis system from <i>Escherichia coli</i> ," <i>Eur. J. Biochem.</i> 239:881-886, Springer International (1996)
RP	AS	5	Kim, D.-M. and Swartz, "Prolonging Cell-Free Protein Synthesis with a Novel ATP Regeneration System," <i>Biotech. & Bioeng.</i> 66:180-188, John Wiley & Sons, Inc. (1999)
RP	AT	5	Kim, R.G. and Choi, C.Y., "Expression-independent consumption of substrates in cell-free expression system from <i>Escherichia coli</i> ," <i>J. Biotech.</i> 84:27-32, Elsevier Science B.V. (November 2000)

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Rebecca Ponty

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RP	AR	6	Kudlicki, W., et al., "High Efficiency Cell-Free Synthesis of Proteins: Refinement of the Coupled Transcription/Translation System," <i>Analytical Biochem.</i> 206:389-393, Academic Press, Inc. (1992)
RP	AS	6	Lederman, M. and Zubay, G., "DNA-Directed Peptide Synthesis. I. A comparison of T ₂ and <i>Escherichia coli</i> DNA-Directed Peptide Synthesis in Two Cell-Free Systems," <i>Biochim. Biophys. Acta</i> 149:253-258, Elsevier Publishing Company (1967)
RP	AT	6	Lesley, et al., "Use of <i>in Vitro</i> Synthesis from Polymerase Chain Reaction-generated Templates to Study Interaction of <i>Escherichia coli</i> Transcription Factors with Core RNA Polymerase and for Epitope Mapping of Monoclonal Antibodies," <i>J. Biol. Chem.</i> 266:2632-2638, The American Society for Biochemistry and Molecular Biology (1991)

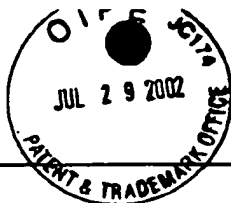
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	AM						Yes No
	AN						Yes No
	AO						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RP	AR	2	Linn, S. and Deutscher, M.P., "The Nucleases of <i>Escherichia coli</i> ," in: <i>Nucleases</i> , Linn, S.M., et al., eds., Cold Spring Harbor Laboratory Press, Plainview, New York, pp. 455-468 (1993)
RP	AS	2	Lopez, P.J., et al., "The C-terminal half of RNase E, which organizes the <i>Escherichia coli</i> degradosome, participates in mRNA degradation but not rRNA processing in vivo," <i>Mol. Microbiol.</i> 33:188-199, Blackwell Science, Ltd. (1999)
RP	AT	2	Lorenz, M.G. and Wackernagel, W., "Bacterial Gene Transfer Genetic Transformation in the Environment," <i>Microbiol. Rev.</i> 58:563-602, The American Society for Microbiology (1994)

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Rebecca Dandy

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RP	AR	8	Makarova, O.V., et al., "Transcribing of <i>Escherichia coli</i> genes with mutant T7 RNA polymerases: Stability of <i>lacZ</i> mRNA inversely correlates with polymerase speed," <i>Proc. Natl. Acad. Sci. USA</i> 92:12250-12254, National Academy of Sciences (1995)
RP	AS	8	Malamy, M.H. and Horecker, B.L., "Purification and Crystallization of the Alkaline Phosphatase of <i>Escherichia coli</i> ," <i>Biochem.</i> 3:1893-1897, The American Chemical Society (1964)
RP	AT	8	Meador, J.III and Kennell, D., "Cloning and sequencing the gene encoding <i>Escherichia coli</i> ribonuclease I: exact physical mapping using the genome library," <i>Gene</i> 95:1-7, Elsevier Science Publishers B.V. (1990)

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Rebecca Prady

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RP	AR	2	Meador, J. III, et al., "Purification and characterization of <i>Escherichia coli</i> RNase I," <i>Eur. J. Biochem.</i> 187:549-553, Springer International (1990)
RP	AS	2	Miller, O.L. Jr., et al., "Visualization of Bacterial Genes in Action," <i>Science</i> 169:392-395, The American Association for the Advancement of Science (1970)
RP	AT	2	Mohanty, B.K. and Kushner, S.R., "Polynucleotide phosphorylase functions both as a 3'→5' exonuclease and a poly(A) polymerase in <i>Escherichia coli</i> ," <i>PNAS</i> 97:11966-11971, National Academy of Sciences (October 2000)

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Rebecca Rando

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RP	AR	<u>10</u>	Murphy, K.C., "λ Gam Protein Inhibits the Helicase and χ-Stimulated Recombination Activities of <i>Escherichia coli</i> RecBCD Enzyme," <i>J. Bacteriol.</i> 173:5808-5821, American Society for Microbiology (1991)
RP	AS	<u>10</u>	Niyogi, S.K. and Datta, A.K., "A Novel Oligoribonuclease of <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> 250:7307-7312, The American Society of Biological Chemists, Inc. (1975)
RP	AT	<u>10</u>	Noren, C.J., et al., "A General Method for Site-Specific Incorporation of Unnatural Amino Acids into Proteins," <i>Science</i> 244:182-188, American Association for the Advancement of Science (1989)

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RP	AR	11	Patnaik, R. and Swartz, J.R., "E. coli-Based In Vitro Transcription/Translation: In Vivo-Specific Synthesis Rates and High Yields in a Batch System," <i>BioTechn.</i> 24:862-868, Eaton Publishing Company (1998)
RP	AS	11	Pelham, H.R.B. and Jackson, R.J., "An Efficient mRNA-Dependent Translation System from Reticulocyte Lysates," <i>Eur. J. Biochem.</i> 67:247-256, Springer-Verlag (1976)
RP	AT	11	Perara, E. and Lingappa, V.R., "A Former Amino Terminal Signal Sequence Engineered to an Internal Location Directs Translocation of Both Flanking Protein Domains," <i>J. Cell Biol.</i> 101:2292-2301, The Rockefeller University Press (1985)

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RP	AR	12	Pratt, J.M., et al., "Identification of gene products programmed by restriction endonuclease DNA fragments using an E. coli in vitro system," <i>Nucleic Acids Research</i> 9:4459-4474, IRL Press Ltd. (1981)
RP	AS	12	Ryabova, L.A., et al., "Acetyl Phosphate as an Energy Source for Bacterial Cell-Free Translation Systems," <i>Anal. Biochem.</i> 226:184-186, Academic Press, Inc. (1995)
RP	AT	12	Spirin, A.S., et al., "A Continuous Cell-Free Translation System Capable of Producing Polypeptides in High Yield," <i>Science</i> 242:1162-1164, The American Association for the Advancement of Science (1988)

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RP	AR	13	Steitz, J.A., "Polypeptide Chain Initiation: Nucleotide Sequences of the Three Ribosomal Binding Sites in Bacteriophage R17 RNA," <i>Nature</i> 224:957-964, Academic Press (1969)
RP	AS	13	Stent, G.S., "Genetic transcription," <i>Proc. Royal Soc.</i> 164:181-197, The Royal Society (1966)
RP	AT	13	Studier, F.W., et al., "Use of T7 RNA Polymerase to Direct Expression of Cloned Genes," <i>Meth. Enzym.</i> 185:60-89, Academic Press, Inc. (1990)

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
lp	AR	14	Yu, D., et al., "An efficient recombination system for chromosome engineering in <i>Escherichia coli</i> ," PNAS 97:5978-5983, National Academy of Sciences (May 2000)				
lf	AS	14	Zubay, G., "In Vitro Synthesis of Protein in Microbial Systems," Ann. Rev. Genet. 7:267-287, Annual Reviews, Inc. (1973)				
	AT	14	Pending Non-Provisional U.S. Patent Application No. 09/518,188, Hartley J.L., filed March 27, 2000				
EXAMINER Rebecca Prouty					DATE CONSIDERED 12/1/04		
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.							



FORM PTO-1449 <u>FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 0942.5250001/RWE/B-C	APPLICATION NO. 10/091,538
	APPLICANT Chatterjee, et al.	
	FILING DATE March 7, 2002	GROUP 1651

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA						
	AB						
	AC						
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	AE						
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	AG						
	AH						
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
RP	AM1	JP 07000194	06/15/1993	Japan			Yes X No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RP	AR	15	Dialog File 351, Accession No. 1995-077150, Derwent WPI English language abstract for JP 07000194.
RP	AS	15	International Search Report for International Patent Application No. PCT/US02/06812, mailed July 17, 2002.
	AT		

EXAMINER <i>Rebecca Pandy</i>	DATE CONSIDERED <i>12/1/04</i>
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